

<!--StartFragment-->RESULT 15
AAE29399

ID AAE29399 standard; protein; 145 AA.

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AC AAE29399;

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DT 27-JAN-2003 (first entry)

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DE N. meningitidis ADP-ribosylating toxin mutant protein (E111X).

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KW ADP-ribosylating toxin; immune response; mucosal adjuvant; gene therapy;
KW vaccine; bacterial infection; immunostimulant; antibacterial; mutant;
KW mutein.

XX

OS Neisseria meningitidis MC58.

OS Synthetic.

XX

FH Key Location/Qualifiers

FT Misc-difference 111

FT /note= "Wild-type Glu substituted with Xaa where Xaa
FT corresponds to Ala, Gly, Lys, Asp, Ser"

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PN WO200279242-A2.

XX

PD 10-OCT-2002.

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PF 28-MAR-2002; 2002WO-IB002080.

XX

PR 30-MAR-2001; 2001GB-00008024.

XX

PA (CHIR-) CHIRON SPA.

XX

PI Masignani V, Pizza M, Rappuoli R;

XX

DR WPI; 2002-740936/80.

XX

PT New protein useful for manufacturing a medicament for raising an immune
PT response or for treating or preventing bacterial infection, as a mucosal
PT adjuvant, as a diagnostic reagent, or as a vaccine.

XX

PS Disclosure; Page; 62pp; English.

XX

CC The present invention relates to novel ADP-ribosylating bacterial toxins
CC and polynucleotides encoding such proteins. Toxins of the invention or
CC their mutants are useful in the manufacture of medicaments for raising an
CC immune response in animals or for use as mucosal adjuvants. They are used
CC as diagnostic reagents for detecting the presence of bacteria or
CC antibodies raised against the bacteria. The compositions are used as
CC medicaments (e.g. vaccine) or in the manufacture of medicaments, for
CC treating or preventing bacterial infection such as those caused by
CC Neisseria meningitidis, Streptomyces coelicolor, Mycoplasma pneumoniae,
CC Salmonella typhimurium, Salmonella paratyphi or Streptococcus pyogenes.
CC Sequences of the invention are also used in gene therapy. The present
CC sequence is Neisseria meningitidis serogroup B ADP-ribosylating toxin
CC truncated mutant protein. Note: This sequence is not shown in the
CC specification but is derived from Neisseria meningitidis ADP-ribosylating
CC toxin wild-type protein shown as SEQ ID NO: 1 in page 51 of the
CC specification (AAE29372)

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SQ Sequence 145 AA;

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Query Match          99.2%;  Score 767;  DB 5;  Length 145;
Best Local Similarity 99.3%;  Pred. No. 8.4e-82;
Matches 144;  Conservative 0;  Mismatches 1;  Indels 0;  Gaps 0;

Qy      1 MGNFLYRGISCQQDEQNNQQLKPKGNKAEVAIRYDGKFKYDGKATHGPSVKNAVYAHQIE 60
      |||
Db      1 MGNFLYRGISCQQDEQNNQQLKPKGNKAEVAIRYDGKFKYDGKATHGPSVKNAVYAHQIE 60
      |||

Qy      61 TGLYDGCYISTTTDKEIAKKFATSSGIENGYIYVLNRDLFGQYSIFEYEVEHPENPNEKE 120
      |||
Db      61 TGLYDGCYISTTTDKEIAKKFATSSGIENGYIYVLNRDLFGQYSIFEYEVXHPENPNEKE 120
      |||

Qy      121 VTIRAEDCGCIPEEVIIAKELIEIN 145
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Db      121 VTIRAEDCGCIPEEVIIAKELIEIN 145

<!--EndFragment-->

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371 PCT date is 9/10/2002
 Provisional 8/11/2002
 UK in English 8/30/2002